

# Product Datasheet

## Nbs1 Antibody - BSA Free NBP1-06705

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 2

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**NBP1-06705**

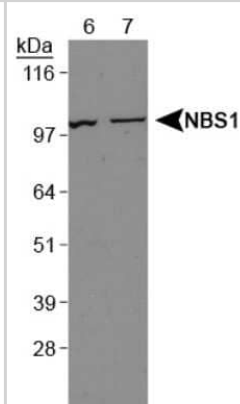
Nbs1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.48 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	84 kDa
Product Description	
Description	Novus Biologicals Rabbit Nbs1 Antibody - BSA Free (NBP1-06705) is a polyclonal antibody validated for use in IHC and WB. Anti-Nbs1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4683
Gene Symbol	NBN
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 21700704).
Immunogen	Nbs1 Antibody was made to a synthetic peptide made to an internal portion of the mouse NBS1 protein (within residues 150-200). [Swiss-Prot# Q9R207]
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5 ug/ml. Use reported in scientific literature (PMID 21700704), Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100
Application Notes	In Western blot, a band is seen at ~97 kDa.

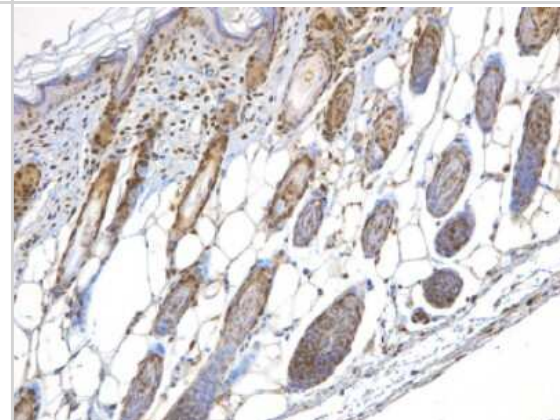


## Images

Western Blot: Nbs1 Antibody [NBP1-06705] - Western Blot analysis of Nbs1 on NIH/3T3 (Lane 6) and HeLa whole cell extract (Lane 7) with Nbs1 Antibody [NBP1-06705]. Observed molecular weight at ~99 kDa.



Immunohistochemistry-Paraffin: Nbs1 Antibody [NBP1-06705] - Staining of paraffin-embedded mouse skin with Nbs1 Antibody [NBP1-06705].



## Publications

Shibui Y, Kohashi K, Tamaki A et al. The forkhead box M1 (FOXM1) expression and antitumor effect of FOXM1 inhibition in malignant rhabdoid tumor J Cancer Res Clin Oncol 2020-11-21 [PMID: 33221995] (IHC-P)

Baltanas FC, Casafont I, Lafarga V et al. Purkinje cell degeneration in PCD mice reveals large-scale chromatin reorganization and gene silencing linked to defective DNA repair. J Biol Chem;286(32):28287-302. 2011-08-12 [PMID: 21700704] (WB, Mouse)

## Procedures

### Western Blot protocol for Nbs1 Antibody (NBP1-06705)

Nbs1 Antibody:

Procedure Guide for NPB1-06705 - NBS1 Antibody

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-NBS1 primary antibody (NBP1-06705) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

**\*\*Note:** Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

### Immunohistochemistry-Paraffin protocol for Nbs1 Antibody (NBP1-06705)

Nbs1 Antibody:

Immunohistochemistry-paraffin embedded sections

#### Antigen Unmasking

Bring slides to a boil in 10 mM sodium citrate buffer pH 6.0 then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench top for 30 minutes.

#### Staining

1. Wash sections in dH<sub>2</sub>O three times for 5 minutes each.
2. Wash section in wash buffer (1X PBS/0.1% Tween-20 (1X PBST)) for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1X PBST, 5% goat serum) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul primary antibody diluted in 1X PBST, 5% goat serum to each section. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated secondary antibody, diluted in 1X PBST, 5% goat serum. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in dH<sub>2</sub>O.
12. Counterstain sections in hematoxylin.
13. Wash sections in dH<sub>2</sub>O two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.



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### **Products Related to NBP1-06705**

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NB800-PC1	HeLa Whole Cell Lysate
NBP1-06705PEP	Nbs1 Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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